

Notice of Allowability

Application No.

10/602,573

Examiner

Manglesh M. Patel

Applicant(s)

TUNNING, BRIAN R.

Art Unit

2178

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to (RCE) August 4, 2006.
2. ☒ The allowed claim(s) is/are 1-4, 10, 11, 14, 15, 17, 19, 23, 24, 49-51 and 53-55.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark Farrell on August 17, 2006.

EXAMINER'S PROPOSED AMENDMENT

CLAIMS

Please Replace All claims with the following:

1. A computer-executable method, comprising:
executing a pane element comprising an element behavior, wherein the pane element comprises a single element that is readable from a document by a browser, and wherein the executing includes invoking logic associated with the element behavior;
parsing and initializing the logic to synchronously bind the logic to the pane element, wherein the logic specifies at least some attributes of one or more panes, and wherein the bound logic renders the pane element into a hypertext markup language (HTML) element to which the element behavior is bound;
executing the HTML element to generate the one or more panes having the specified attributes;
wherein the bound logic manages display attributes of the one or more panes including a position, a size, and a shape for each pane;
wherein the bound logic manages linkages between the one or more panes and one or more content resources, such that:
when only one pane exists then a changing content displayed in the pane is dynamically stored in the content resource in order to initialize subsequent additional panes with the same content;
when multiple panes exist the content that is common to the multiple panes is dynamically linked between the panes in order to propagate edits in the content simultaneously between the panes; and

when multiple panes each possess a link to a common content resource, then input from the common content resource and changes to the common content resource are simultaneously implemented in the multiple panes.

2. The computer-executable method as recited in claim 1, wherein the pane element includes a reference to the associated logic.
3. The computer-executable method as recited in claim 1, wherein the pane element includes at least one markup language tag.
4. The computer-executable method as recited in claim 1, wherein the pane element itself comprises an HTML element.
- 5-9. (Canceled)
10. A computer-executable method, comprising:
 - reading multiple pane elements in the web page document to generate multiple panes in the web page;
 - wherein an attribute of content in the first pane is changed based on a change in an attribute of content in the second pane;
 - wherein content in the second pane is changed as the content is edited in the first pane;
 - executing the pane element wherein the executing invokes logic synchronously bound with the pane element, wherein the bound logic specifies at least some attributes of one or more panes;
 - wherein the executing generates the one or more panes having the specified attributes;
 - wherein the bound logic manages display attributes of the one or more panes including a position, a size, and a shape for each pane;
 - wherein the bound logic manages a linkage between the one or more panes and one or more content resources, such that changes to content that is common between one or more panes and the one or more content resources is simultaneously updated in each of the panes and in each of the content resources.

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11. The computer-executable method as recited in claim 10, wherein the web page document comprises HTML.
- 12-13. (Canceled)
14. The computer-executable method as recited in claim 10, wherein the pane element includes an associated content displayed in the pane.
15. The computer-executable method as recited in claim 14, wherein the content is one of a text, an image, a link, an interactive control, or a user interface.
16. (Canceled)
17. The computer-executable method as recited in claim 14, wherein the pane element derives content attributes to determine one of a size, a dimension, a shape, a color, a format, a priority, a style, or a font of the content to be displayed in the pane.
18. (Canceled)
19. The computer-executable method as recited in claim 17, wherein the bound logic determines the pane attributes based on the content attributes.
- 20-22. (Canceled)
23. The computer-executable method as recited in claim 10, wherein a first pane adjusts a second pane depending on a characteristic or behavior of the first pane.
24. The computer-executable method as recited in claim 10, wherein an attribute of the first pane is adjusted based on changing content in the second pane.

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25-48. (Canceled)

49. A computer-executable pane engine embodied on a computer readable medium addressable via execution of a pane element for generating one or more interrelated panes in a web page, wherein the pane engine comprises a parsed and initiated element behavior bound to the pane element, comprising:

a pane attribute assignor;

a pane sizer;

a pane positioner;

a list of attributes in which an attribute value is specified and implemented by the pane engine;

a multipane coordinator to manage interrelations between attributes of multiple panes being concurrently displayed on a user interface;

a dynamic content linker in the multipane coordinator to dynamically link a content that is common between multiple panes, wherein edits in the content of one pane are simultaneously propagated to the other panes; and

a common resource linker for multiple panes that each possess a link to a common content resource, wherein the common resource linker sends input from the common content resource to the multiple panes;

a dynamic content linker to enable changes in a content of a first pane to affect display of a content in a second pane;

a common resource linker, that displays changes in content in the common resource simultaneously in two or more panes.

50. The computer-executable pane engine as recited in claim 49, further comprising default pane attributes for generating the one or more interrelated panes.

51. The computer-executable pane engine as recited in claim 49, further comprising an attribute reader to obtain pane attributes and content attributes selected by a user.

52. (Canceled)

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53. The computer-executable pane engine as recited in claim 49, wherein the multipane coordinator includes a Z-order prioritizer to determine an order of web page panes in a cascaded stack of web page panes appearing on a display screen.
54. The computer-executable pane engine as recited in claim 49, further comprising a focus assignor to determine which pane of multiple panes is active or on top of a cascaded stack of web page panes appearing on a display screen.
55. The computer-executable pane engine as recited in claim 49, further comprising an attribute interrelation module including a pane attribute analyzer and a content attribute analyzer, wherein a pane attribute of a first pane is determined based on a pane attribute or a content attribute of a second pane.
- 56-68 (Canceled)

REASONS FOR ALLOWANCE

2. Claims 1-4, 10-11, 14-15, 17, 19, 23-24, 49-51 and 53-55 are allowed.
3. The prior art of record fails to disclose or suggest features in the Proposed Amendment.
4. The following is an examiner's statement of reasons for allowance: The references of Klevenz, Nadav and Cecco individually or in combination fail to teach the automatic management of the display attributes of one pane or multiple interrelated panes by changing content that is common between the panes. And the automatic management of changing displayed content common to multiple panes and linked between panes and one or more content resources, such as a file, a keyboard input, etc, such that content changes are propagated throughout linked panes and content resources. A web page author contemplating a sophisticated GUI has limited choices: write additional web pages which require serious programming commitment or using "canned" web page code which are not customizable. By executing the pane element it frees the web page author from these tasks. Further more, the claimed feature would not have been obvious to a person of ordinary skill in the art at the time of the invention in view of the prior art of record. Because neither Klevenz, Nadav nor Cecco teach the features recited in the independent claim has described above. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statements of Reasons for Allowance."

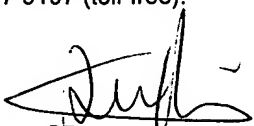
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Manglesh M. Patel whose telephone number is (571) 272-5937. The examiner can normally be reached on M, W 6 am-3 pm T, TH 6 am-2pm, Fr 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen S. Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Manglesh M. Patel
Patent Examiner
August 17, 2006



STEPHEN HONG
SUPERVISORY PATENT EXAMINER